The Constance Bridgeman Centre - Year 10: Autumn 1.2

English

In English this half term students will be studying A Christmas Carol by Charles Dickens. Students will explore how Dickens presents key themes including redemption, social responsibility and compassion through the novella's characters, language and structure. They will examine the historical context of Victorian Britain and consider how this shaped Dickens' message. Alongside analytical reading, students will complete a range of creative and extended writing activities inspired by the text, while developing the skills to support their ideas with evidence and communicate thoughtful interpretations in preparation for the GCSE.

Maths

In Maths this half term students will build upon their algebraic understanding by exploring inequalities and numerical sequences. They will learn the meaning of inequality symbols, represent inequalities on number lines and solve increasingly complex inequalities, including those involving negative numbers and real-life contexts. Students will then develop their understanding of sequences by identifying patterns, using term-to-term rules and deriving algebraic nth term expressions for arithmetic sequences. They will extend this learning to geometric sequences and apply their knowledge to practical situations such as financial growth and population change. Students will also investigate the properties of 2D shapes and polygons, calculate interior and exterior angles, and explore symmetry and transformations including reflections, rotations and translations. They will apply these concepts to a range of problem-solving and real-world scenarios.

Science

In Science this half term students will explore the structure of the atom and discover how our understanding of atomic theory has developed over time. They will investigate the Periodic Table, chemical bonding and the properties of different materials before applying this knowledge to quantitative chemistry and chemical reactions. Students will study the reactivity of metals, neutralisation, electrolysis and methods of producing useful substances. Through practical investigations and calculations, they will develop confidence in interpreting chemical data and explaining how chemistry underpins many industrial processes and everyday applications.

Art

This Art half term students continue the Identity project and begin to take greater ownership of their creative work. Building on previous artist research, they will investigate additional practitioners and explore how personal experiences and interests can inspire artwork. Students will strengthen recording skills through drawing, photography and image studies while experimenting with a wider range of media, including printmaking and mixed media techniques. Through annotation and reflection, they will evaluate the effectiveness of different approaches and develop an increasingly individual artistic style. The unit encourages creativity, confidence and independence while preparing students for more sustained coursework projects.

Food Technology

In Food Technology this half term students will be studying 'Nutrition and Healthy Eating'. Students will explore the functions of key nutrients, including carbohydrates, proteins, fats, vitamins and minerals, and investigate how these contribute to growth, energy and overall health. They will examine the importance of a balanced diet and consider how nutritional needs vary according to age, lifestyle, culture and medical conditions. Students will also investigate the impact of poor nutrition on health and wellbeing, including obesity, malnutrition and deficiency diseases. Practical lessons will focus on preparing and adapting healthy dishes, developing skills such as weighing, portioning, knife skills and food presentation. Students will evaluate their dishes using nutritional and hospitality terminology, considering how effectively they meet the needs of different customer groups.

Music

In Music this half term students will explore a range of popular music genres, including Punk, Britpop, Grunge and UK Garage. Through listening and analysis, they will investigate how rhythm, texture, instrumentation and production techniques contribute to musical identity. Students will develop their understanding of key musical terminology while comparing the characteristics of different styles and considering their cultural significance. Using GarageBand and Logic Pro, they will sequence, record and edit their own musical ideas, experimenting with loops, layering and effects. Practical lessons will also develop ensemble performance and recording skills, encouraging students to refine their work through evaluation and feedback.

PE

In PE this half term, students will develop their basketball skills through practical drills, small-sided games and competitive match play. Students will refine their dribbling, passing and shooting techniques while learning how movement, spacing and communication create successful attacking opportunities. They will explore offensive and defensive tactics, including screening and different defensive systems, applying these within increasingly competitive situations. Throughout the unit, students will strengthen their tactical awareness, decision-making and teamwork while evaluating performances, demonstrating resilience and developing confidence in competitive basketball.

PSHE

In PSHE this half term students will develop their understanding of Hinduism and Sikhism by exploring the beliefs, practices and values that shape each faith. They will investigate the lives and teachings of Guru Nanak and key Hindu beliefs, including karma, dharma and life after death. Students will examine religious symbols, sacred texts, worship and festivals such as Diwali, comparing how these are celebrated within each religion. Throughout the unit, they will reflect on how religious beliefs influence identity, morality and community life while developing respect for different cultures, beliefs and traditions within modern British society.

Sports Science

In Sports Science this half term, students will explore different types of sports clothing, equipment, and facilities essential for participation. They will research the materials used in sportswear and their suitability for various activities, assessing how appropriate clothing and gear enhance performance and safety. Students will identify different sports facilities, comparing indoor and outdoor options, and learn about officiating equipment. The unit also covers the role of technology in sport, including performance tracking and officiating tools, while examining the limitations and fairness of such technologies. Students will evaluate real-life cases where technology impacted sports outcomes.

Enrichment

As part of the Enrichment Programme, students will be given the opportunity to experience:

Gym: This half term, students will participate in structured gym-based sessions designed to improve their overall health, fitness, and wellbeing. They will develop an understanding of safe and effective exercise techniques while using a range of cardiovascular and resistance equipment. Students will learn how to set realistic fitness goals, monitor their progress, and understand the importance of regular physical activity in maintaining a healthy lifestyle. The programme will promote resilience, self-discipline, motivation, and personal responsibility, encouraging students to develop lifelong habits that support both their physical and mental wellbeing.

Mini Golf: Students will also participate in mini golf, providing an enjoyable opportunity to develop coordination, accuracy, concentration, and strategic thinking. Through individual and team-based challenges, students will enhance their problem-solving skills, patience, and decision-making while demonstrating good sportsmanship and respect for others. The activity will encourage communication, teamwork, and perseverance, helping students to build confidence and develop positive social skills within a relaxed and inclusive environment.